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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/720,710	06/01/2001	Vanessa Z.H. Chan	M0925/7067	5662

7590

10/06/2004

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EXAMINER

CHANG, VICTOR S

ART UNIT

PAPER NUMBER

1771

DATE MAILED: 10/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/720,710

Applicant(s)

CHAN ET AL.

Examiner

Victor S Chang

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 September 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-148 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☒ Claim(s) 1-148 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

DETAILED ACTION

Introduction

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Election/Restrictions

2. Applicant's election with traverse of Species L in the reply filed on 9/7/2004 is acknowledged. The traversal is on the ground(s) that "it is believed that a single search and examination covering all claims would not place undue burden on the Examiner" (Response, page 1). This is not found persuasive because, particularly in view of a large number of species in the claims, each species are patentably distinct.

The requirement is still deemed proper and is therefore made FINAL.

3. While Applicants have elected Species L in the Species Group IV, it is noted that Applicants fail to elect a single species from each Species Group, and Applicants' response to the restriction requirement is incomplete. Additionally, the Examiner apologizes for an inadvertent error in not identifying the generic claims for each Species Group separately. As such, the Species Groups I-III are rewritten as follows (Species Group III was inadvertently written as Species Group IV in the prior Office action).

I. System

Species A of claims 2, 4-11, 16, 25 and 29: A system comprising a polymeric article including a periodic structure of a periodically occurring separate domains, the

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second domain comprised of a polymeric species not containing a sufficient quantity of inorganic species capable of forming a ceramic oxide.

Species B of claims 3, 12-15, 46, 47, 49-61 and 109: A system comprising an article including a periodic structure of a periodically occurring separate domains, the second domain comprised of a void space.

Species C of claims 19-22: A system comprising a polymeric article including a periodic structure of a periodically occurring separate domains, the second domain comprised of a polymeric species not containing a sufficient quantity of inorganic species capable of forming a ceramic oxide. At least one domain further contains an auxiliary component.

Species D of claims 26-28: A system comprising an article including a periodic structure of a periodically occurring separate domains, the second domain comprised of a material that cannot be formed into a periodic structure.

Species E of claims 30-40 and 42-45: An article comprising a periodic structure of a periodically occurring separate domains having at least one polymeric species, and at least one domain comprising a molded structure formed of at least one of a liquid or solid material.

Claims not specifically identified for Species A-E (i.e., claims 1, 17, 18, 23, 24, 41, 48, 62-108 and 110-148) are generic to Species Group I.

II. Block copolymer

Species F of claim 17: two block copolymer.

Species G of claim 18: three block copolymer.

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Claims not specifically identified for Species F and G (i.e., claims 1-16 and 19-148) are generic to Species Group II.

IV. Filling Material

Species H of claim 33 and 34: material is a fluorine-containing polymer.

Species I of claims 35, 107 and 108: material is a conducting polymer.

Species J of claim 36: material is a metal.

Species K of claim 37: material has a melting temperature of at least 400 degrees C.

Species L of claims 38 and 64-106: material has a dielectric constant greater than 3.

Species M of claim 63: material has a dielectric constant less than 3.

Species N of claim 39, 40, 41, 62, 110-138 and 140-148: material is a magnetic material.

Species O of claim 139: material comprises a magnetic material and an electrical conductor.

Claims not specifically identified for Species H-O (i.e., claims 1-32, 42-61, 109 and 139) are generic to Species Group III.

Applicant is required, in reply to this action, to elect a single species of each Species Group to which the claims shall be restricted if no generic claim is finally held to be allowable. Claims not commonly elected in each Species Group are to be withdrawn as non-elected. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is

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allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: Species are patentably distinct and lacks distinct technical features over each other. For examples, Species A lacks the void space in second domain of Species B.

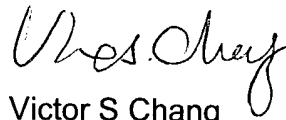
4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor S Chang whose telephone number is 571-272-1474. The examiner can normally be reached on 8:30 - 5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel H Morris can be reached on 571-272-1478. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Victor S Chang
Examiner
Art Unit 1771

9/28/2004



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